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→ Gasketed-plate heat exchangers

ITEX

Precision in heat exchange





ITEX the experts' range

Controlled heat exchange

Thanks to their excellent heat-transfer coefficients and their slim design, CIAT's gasketed plate heat exchangers have established themselves as an alternative to multitubular heat exchangers in many fields.

CIAT reasserts its expertise as a manufacturer with its ITEX range, with capacities ranging from kilowatts to a number of megawatts.

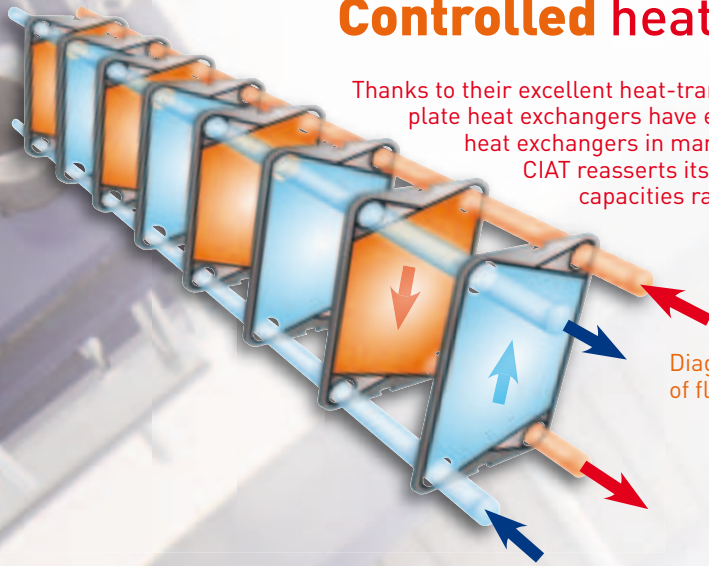









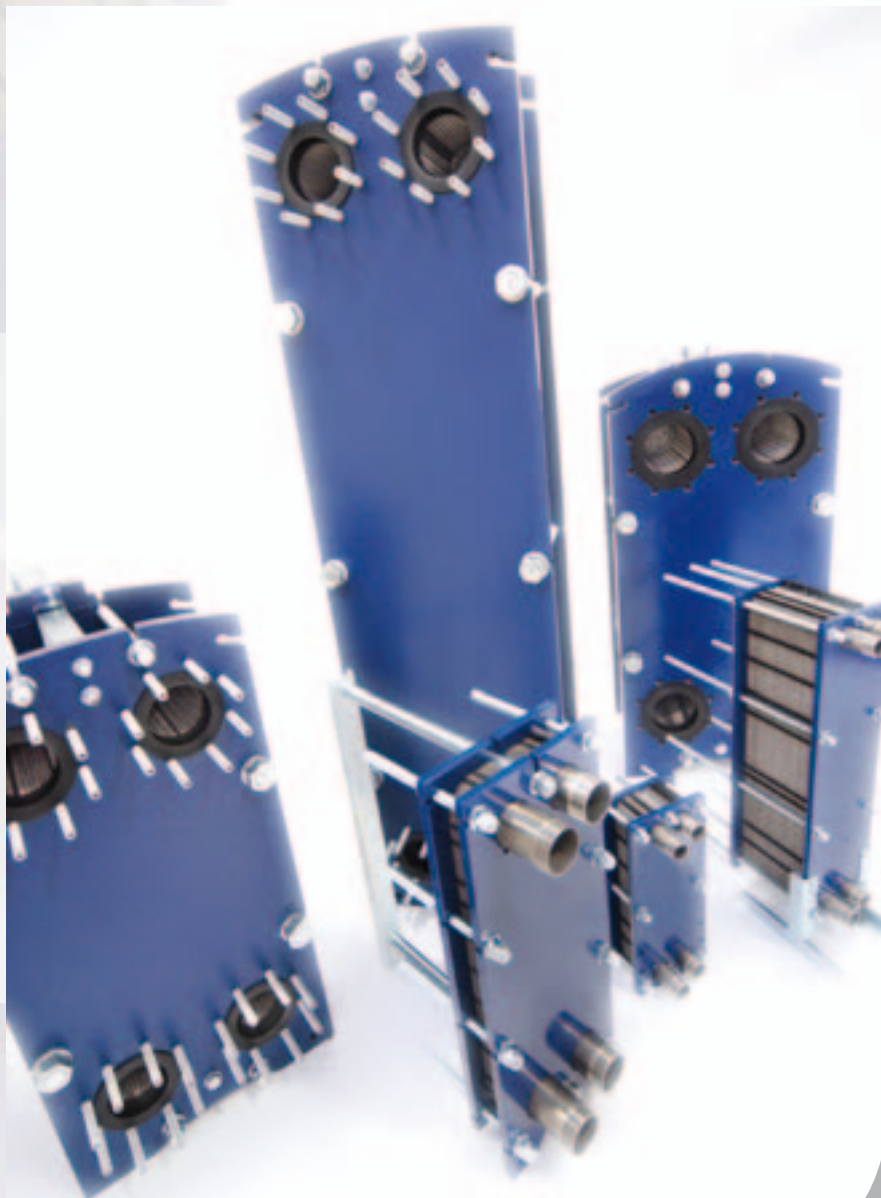
Diagram illustrating the direction of flow in a single-pass exchanger

expertise

Fields of excellence

Heating and cooling for industry and climatic engineering.

-  Industrial processes
-  Oil cooling
-  Heat recovery
-  Marine and seawater applications
-  Geothermal energy, solar energy, pool heating
-  Heating of domestic hot water
-  District heating/cooling





Heat exchange is CIAT's business

A trailblazer in heat exchange for over 70 years, CIAT continuously develops new technologies applied to renewable energies. Each year we invest over € 1 million in R&D to make our ranges even more energy efficient than they already are. Our experts and networks place CIAT's know-how, technologies and products within reach of customers throughout the world.

CIAT: naturally at the heart of heat exchange.

Our speciality: heat transfer

Our business: energy optimisation

**Our competitive edge:
innovation**

**Our
strength:
our
customers**



business



From selection to **heat transfer**



Ultra-exact **selection**

Validated by CIAT's Research & Innovation Centre, the ELSA selection software is based on a powerful thermal design engine. The compatibility of fluids and materials is ensured by a continuously enriched database.

CIAT's range of heat exchangers is highly modular. To determine which models are exactly suited to your needs, the ELSA software analyses your thermal needs and allowable pressure losses for fluids. This is primordial during selection as it has an impact on plate selection and, thus, on the transfer area.



Unit being tested at CIAT's Research & Innovation Centre

CIAT guarantees the thermal performance of the exchangers it selects.



hard plate

soft plate

Choice of **materials**

🔄 Plate materials

- AISI 304 s/steel
- AISI 316L s/steel
- 254SMO
- TITANIUM

🔄 Gasket materials

- NBR
- EPDM
- EPDM Prx
- FKM VITON®

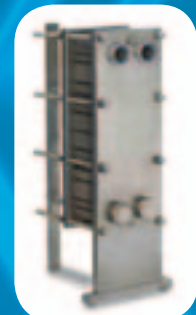
The materials, patterns and thicknesses of plates are selected to ensure safety and longevity.

Choice of **options**

- 🔄 Hot and cold insulation
- 🔄 Condensate drain pan
- 🔄 Plate protection
- 🔄 ATEX version for explosive atmospheres
- 🔄 Stainless steel frames
- 🔄 Paint coatings



Insulated unit



All stainless steel



Assembly room at the Verona factory

selection

DISTRICT
COOLING

OFFICES

GEOTHERMAL ENERGY
SOLAR ENERGY

DISTRICT
HEATING

INDUSTRY

range



ITEX:
the range

DN 100

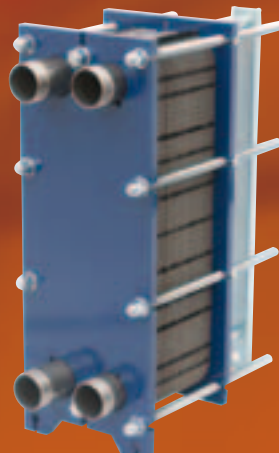
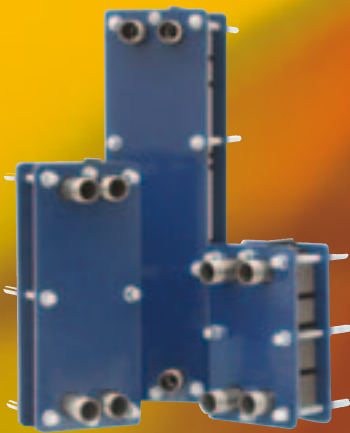
240 m³/h

DN 32

19 m³/h

DN 65

80 m³/h



ITEX

2

4

6

8

11

18

30

45

70

Easy-to-use systems

- ☞ Side-removable plates
- ☞ "Plug-in" gaskets
- ☞ Stainless steel guide bar for easy and accurate alignment of plates
- ☞ One-person tightening
- ☞ Many connection possibilities



CIAT's patented "Plug-in" gaskets

DN 150

380 m³/h



DN 200

800 m³/h



40

60

90

65



Heat exchange and more...

Quality / reliability

The best assurance of quality is the trust of our customers. For example, after many tests CIAT received approval to equip district cooling systems in the Middle East with plate exchangers.



As a result, the ITEX range was recognised as suitable for meeting the enormous energy needs in the Emirates. Whatever your application, you can rely on CIAT as a quality partner able to deliver equipment certified by ASME or Det Norsk Veritas and one that will present you with a number of proposals for your consideration.



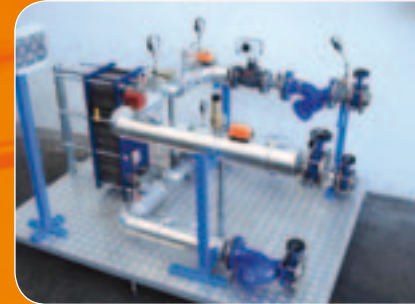
Scalability



SANICIAT domestic hot-water module or high-safety variant for the healthcare sector.



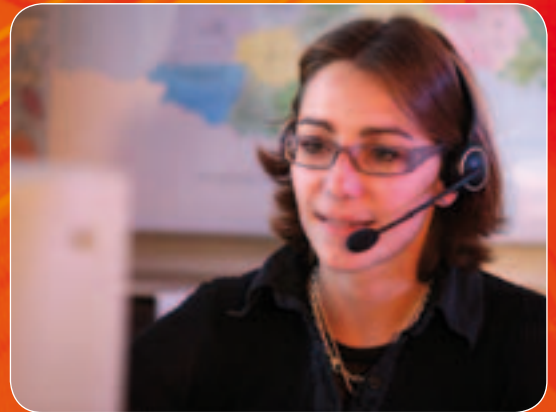
AUREPLAK model developed specially to be inserted between a heat pump and an underground well.



Skid for district heating, with an expansion vessel, valves and a **Plug & Heat instrumentation system**.

Services

Our customers greatly appreciate the efficiency and close attention of our team of experts. CIAT has a dedicated network of 150 people in France as well as subsidiaries and distributors in over 70 countries working for you.



Our Customer Service department tracks your orders as soon as they are received. It is available 24/7 to provide you with information on their progress.



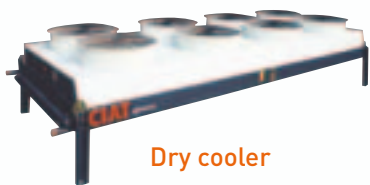
With our enormous stock of plates and gaskets, you can be sure that you will benefit from among the fastest delivery times in the industry. We even occasionally deliver spare parts for units that went out of production 20 years ago

Transfer

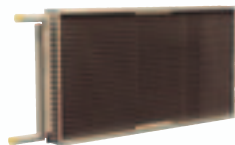
sustainable development

At the heart of heat exchange, throughout life,
energy is vital, and diversity valuable.

CIAT naturally plays its part by providing solutions
that safeguard our future.



Dry cooler



Heat-exchange coil



Multitubular heat exchanger



Brazen-plate heat exchanger



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